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1 [A component and communication model for push systems](#)

Manfred Hauswirth, Mehdi Jazayeri

 October 1999 **ACM SIGSOFT Software Engineering Notes, Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-7**, Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

 Full text available: [pdf\(1.50 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a communication and component model for push systems. Surprisingly, despite the widespread use of many push services on the Internet, no such models exist. Our communication model contrasts push systems with client-server and event-based systems. Our component model provides a basis for comparison and evaluation of different push systems and their design alternatives. We compare several prominent push systems using our component model. The component model consists of producers an ...

2 [EIU's ViewsWire: new wine in a new bottle](#)

Peter Lovelock, Ali F. Farhoomand

 December 2000 **Proceedings of the twenty first international conference on Information systems ICIS '00**
Publisher: Association for Information Systems

 Full text available: [pdf\(516.64 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
3 [Client-server computing in mobile environments](#)

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

 June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(233.31 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile

compuing, mobile data, mobility awareness, survey, system application

4 Role-based access control on the web

 Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume

4 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

5 Issues essential to World Wide Web marketing

 A. Maurice Stratton, Ka-Wing Wong

April 1997 **ACM SIGICE Bulletin**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Technological society in the 21st century gives us a new meaning and a new challenge in our daily life. In marketing, the challenge comes in the use of technology to make business successful. With the Internet replacing many traditional communication mediums, marketing on the World Wide Web is going to be the biggest challenge to most marketers. This paper discusses the issues that are essential to marketing on the World Wide Web.

Keywords: World Wide Web, marketing

6 Columns: Risks to the public in computers and related systems

 Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.24 MB\)](#) Additional Information: [full citation](#)

7 Applications: YouServ: a web-hosting and content sharing tool for the masses

 Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available:  [pdf\(238.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intranet ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

8 WebCQ-detecting and delivering information changes on the web

 Ling Liu, Calton Pu, Wei Tang

November 2000 **Proceedings of the ninth international conference on Information and knowledge management CIKM '00**

Publisher: ACM Press

Full text available:  pdf(835.31 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



9 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...



10 Digital smart kiosk project

 Andrew D. Christian, Brian L. Avery

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '98**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: information display, machine vision, public kiosk, talking emotive avatar, user interface design

11 Where campus meets the Internet: a universally accessible online documentation system

 Susan Topol, Mark Smith, Suzanne Schluederberg

February 1996 **Proceedings of the 13th annual international conference on Systems documentation: emerging from chaos: solutions for the growing complexity of our jobs SIGDOC '95**

Publisher: ACM Press

Full text available:  pdf(809.98 KB) Additional Information: [full citation](#), [references](#), [index terms](#)



12 The case for design using the World Wide Web

 Mário J. Silva, Randy H. Katz

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation DAC '95**

Publisher: ACM Press

Full text available:  pdf(100.42 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13

Harnessing technology for effective inter- and intra-institutional collaboration: report of the ITICSE '97 working group on supporting inter- and intra-institutional



 **collaboration**

Douglas Siviter, Marian Petre, Bruce Klein
October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The computer science discipline is well poised to provide leading examples of harnessing communications and computer technologies in order to encourage collaborative practices both within and between institutions. Students, academics, and institutions all potentially have access to their counterparts world-wide. This provides endless opportunities for sharing knowledge, accessing scarce expertise, making effective re-use of limited resources, collaborating to attract funding and influence policy ...

14 Harnessing technology for effective inter- and intra-institutional collaboration (report of the ITiCSE '97 working group on supporting inter- and intra institutional collaboration)

Douglas Siviter, Marian Petre, Bruce Klein

June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings ITiCSE-WGR '97**

Publisher: ACM Press

Full text available:  pdf(145.01 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 GIS and the internet: Web architectures for scalable moving object servers

 Cédric du Mouza, Philippe Rigaux

November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems GIS '02**

Publisher: ACM Press

Full text available:  pdf(309.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper describes how the Web can be used as a support for intensive querying and display of large moving objects databases. We present first an architecture for a system which integrates incoming events provided by GPS servers in a spatio-temporal database, and permits to register *queries* over this database. We focus on *continuous* queries that allow users to receive notification of events affecting the initial result, and discuss the process of *matching* queries and ...

16 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

17 Object lessons learned from a distributed system for remote building monitoring and operation

Frank Olken, Hans-Arno Jacobsen, Chuck McParland, Mary Ann Plette, Mary F. Anderson

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.54 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe our experiences with the design, the deployment, and the initial operation of a distributed system for the remote monitoring and operation of multiple heterogeneous commercial buildings across the Internet from a single control center. Such systems can significantly reduce building energy usage. Our system is distinguished by its ability to interface to multiple heterogeneous legacy building Energy Management Control Systems (EMCSs), its use of the Common Object Request ...

18 Specifying internet applications with DiCons

 J. C. M. Baeten, H. M. A. van Beek, S. Mauw

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**

Publisher: ACM Press

Full text available: [pdf\(185.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: DiCons, distributed consensus, internet applications, language design

19 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluemphitiwiriyawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(355.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

20 Dynamic services and analysis: Engineering and hosting adaptive freshness-sensitive web applications on data centers

 Wen-Syan Li, Oliver Po, Wang-Pin Hsiung, K. Selçuk Candan, Divyakant Agrawal

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: [pdf\(10.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wide-area database replication technologies and the availability of content delivery networks allow Web applications to be hosted and served from powerful data centers. This form of application support requires a complete Web application suite to be distributed along with the database replicas. A major advantage of this approach is that dynamic content is served from locations closer to users, leading into reduced network latency and fast response times. However, this is achieved at the expense ...

Keywords: database-driven web applications, dynamic content, freshness, response

time, net-work latency, web acceleration

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